

08/281,790, filed July 28, 1994, now U.S. Patent No. 5,514,154,  
which --.

IN THE CLAIMS:

Please cancel claims 2-24 without prejudice.

Please add the following new claims:

*Sub B17*  
32. An intravascular stent for implanting in a body lumen, comprising:

a plurality of spaced apart cylindrical rings positioned along a longitudinal axis, each of the cylindrical rings having a plurality of undulating elements in the form of a repeating pattern of substantially U-shaped members; and

*A2*  
a plurality of connecting members for connecting adjacent cylindrical rings;

the cylindrical rings being positioned relative to each other so that the substantially U-shaped members of adjacent cylindrical rings are out of phase.

33. The intravascular stent of claim 32, wherein at least some of the connecting members are substantially parallel to each other.

34. The intravascular stent of claim 32, wherein the cylindrical rings and connecting members are formed from a single piece of hollow tubing.

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35. The intravascular stent of claim 32, wherein the substantially U-shaped members have a curved portion having a substantially uniform radius of curvature.

36. The intravascular stent of claim 35, wherein at least some of the curved portions of the substantially U-shaped members deform when the stent is expanded from a delivery diameter, to a larger implanted diameter, the deformed curved portions projecting radially outwardly as the stent is expanded to the larger implanted diameter.

37. The intravascular stent of claim 36, wherein the stent has a first end and a second end, at least some of the curved portions of the substantially U-shaped members forming the first end and the second end project radially outwardly when the stent is expanded from the delivery diameter to the larger implanted diameter.

38. The intravascular stent of claim 32, wherein the cylindrical elements and the connecting members are formed from a flat sheet of material.

39. The intravascular stent of claim 32, wherein the stent is formed from a metal alloy.

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40. The intravascular stent of claim 39, wherein the metal alloy is taken from the group of metal alloys including stainless steel and nickel-titanium.

41. The intravascular stent of claim 32, wherein the connecting members between adjacent cylindrical elements are substantially the same length.

42. The intravascular stent of claim 32, wherein the plurality of U-shaped members have substantially the same size and shape.

43. The intravascular stent of claim 32, wherein at least five cylindrical elements are interconnected.

44. An intravascular stent for implanting in a body lumen, comprising:

a plurality of spaced-apart cylindrical rings positioned along a longitudinal axis, each of the cylindrical rings having a plurality of undulating elements in the form of a repeating pattern of substantially U-shaped members;

each of the substantially U-shaped members having a pair of sides connected by a curved portion; and

a plurality of struts for connecting adjacent cylindrical rings;